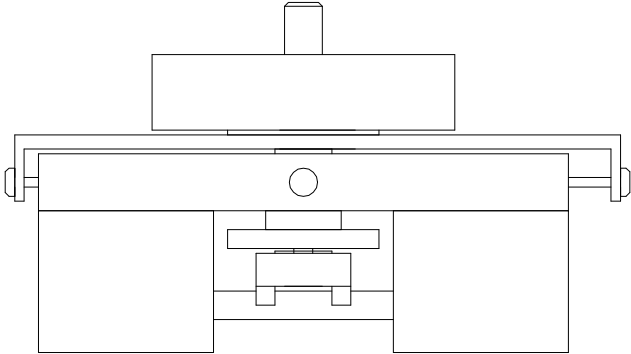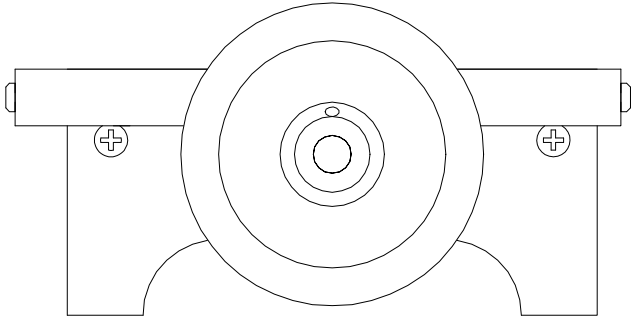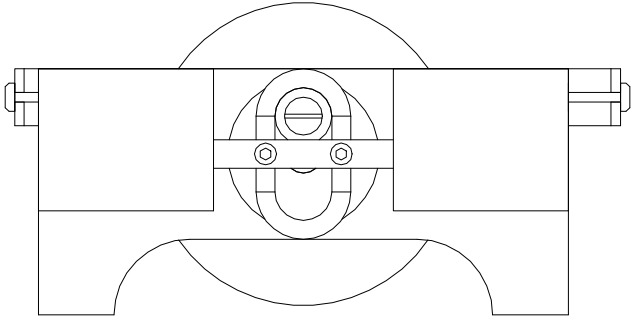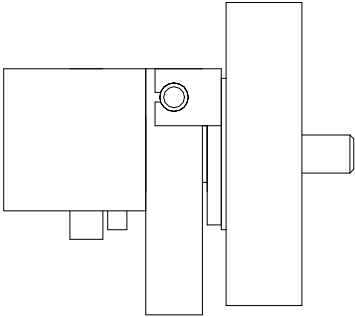# Assembly Drawings

Double Scotch

Top View

Front View

Back View

End View

Working Drawings

"Double-Scotch"

Piston, Make 2
ø0.499
ø0.375
Tap 4–40
0.500

Cylinder 1 as shown, 1 Opposite
1.156
ø0.500
1.062 Deep
0.938
0.563
0.938
0.625
4–40 2pls
See Notes
0.289
0.578
0.750
0.469
0.125

Main Bearing
0.531
0.125
0.375
ø0.500
Bore ø0.250

Crank Shaft
1.625
0.125
ø1.000
0.250
D&T 4–40
ø0.250

Flywheel
ø0.500
0.093
ø1.000
0.125
0.031
ø2.000
ø1.500
ø0.750
ø0.500
ø0.250 Thru

Frame
Air Inlet, See Text
1.750
0.188
0.250
0.188
0.188
ø0.188 Thru
1.625
0.375

Section
D&T 6–32
0.218

Main Scotch Yoke
R0.094
1.125
0.563
0.344
0.219
0.625 Ref
R0.313
0.500
0.313
0.500
R0.188
0.250
D&T 2–56, 2pls

Spool Valve Assembly
ø0.187
ø0.062
4.000
3.000
3.125
0.094 typ 4pls
0.438
Slot with ø0.062 EM
Thrd 8–32, 2pls
0.250
0.188
ø0.250
Slot 0.025 Wide
0.035 Deep
0.188

Crank Screw
Thrd 4–40
0.125
0.375
0.188
0.063

Piston Rod
Thru #32, SPF 0.156
Thrd 4–40 each end
0.150
0.975
2.750
0.500
0.150

Valve Yoke
0.186
0.470
2.000
4.000
0.063
0.090
R0.375
R0.250
R0.281
1.344
0.375

ø0.062,0.15 deep
#33 Thru
CSK 82° Farside
0.289
0.188
0.125
0.578
3.500
1.750
0.125
0.578
0.289
0.469 0.563
R0.500
ø0.375
0.500
2.500

Slot 0.188
1.030
0.375
0.063